

# **Glencoe/McGraw-Hill**

**Glencoe Geometry: Concepts and Applications ©2004  
Mathematics, K-12; C 9-12;**

**1. Geometry  
ISBN# 0-07-845773-4**

**correlated to**

**North Carolina  
Mathematics Standard Course of Study  
Geometry**

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 correlated to

**NORTH CAROLINA**  
**MATHEMATICS STANDARD COURSE OF STUDY**  
**GEOMETRY**

<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<b>COMPETENCY GOAL 1: The learner will perform operations with real numbers to solve problems.</b>	
1.01 Use the trigonometric ratios to model and solve problems involving right triangles.	SE: 564–566, 567–568, 569, 572–574, 575–577, 578–580, 581–583, 628–629  TWE: 564–566, 567–568, 569, 572–574, 575–577, 578–580, 581–583, 628–629
1.02 Use length, area, and volume of geometric figures to solve problems. Include arc length, area of sectors of circles; lateral area, surface area, and volume of three-dimensional figures; and perimeter, area, and volume of composite figures.	SE: 483–487, 490, 495–501, 504–509, 510–515, 516–521, 522–527, 528–533, 540–542, 543–545, 582–583, 672–673  TWE: 483–487, 490, 495–501, 504–509, 510–515, 516–521, 522–527, 528–533, 540–542, 543–545, 582–583, 672–673
1.03 Use length, area, and volume to model and solve problems involving probability.	SE: 484, 486, 487  TWE: 484, 486, 487
<b>COMPETENCY GOAL 2: The learner will use geometric and algebraic properties of figures to solve problems and write proofs.</b>	
2.01 Use logic and deductive reasoning to draw conclusions and solve problems.	SE: 638, 639, 640, 642–643, 646, 649–653, 637, 654–659, 660–665, 668–670, 671  TWE: 638, 639, 640, 642–643, 646, 649–653, 637, 654–659, 660–665, 668–670, 671

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
2.02 Apply properties, definitions, and theorems of angles and lines to solve problems and write proofs.	SE: 89–95, 96–101, 104–109, 110–115, 116–121, 122–127, 128–133, 137–139, 142–147, 148–153, 156–161, 162–167, 180–182, 183–185  TWE: 89–95, 96–101, 104–109, 110–115, 116–121, 122–127, 128–133, 137–139, 142–147, 148–153, 156–161, 162–167, 180–182, 183–185
2.03 Apply properties, definitions, and theorems of two-dimensional figures to solve problems and write proofs.	
• Triangles	SE: 188–192, 193–197, 198–202, 203–207, 210–214, 215–219, 220–222, 223–225, 227–233, 246–250, 256–261, 268–270, 271–273, 282–287, 296–300, 302–304, 305–307  TWE: 188–192, 193–197, 198–202, 203–207, 210–214, 215–219, 220–222, 223–225, 227–233, 246–250, 256–261, 268–270, 271–273, 282–287, 296–300, 302–304, 305–307
• Quadrilaterals	SE: 309–315, 316–321, 322–326, 327–332, 333–338, 345–347, 342–344  TWE: 309–315, 316–321, 322–326, 327–332, 333–338, 345–347, 342–344
• Other polygons	SE: 402–407, 408–412, 412–418, 419–424, 425–430, 434–439, 446–448, 449–451  TWE: 402–407, 408–412, 412–418, 419–424, 425–430, 434–439, 446–448, 449–451

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<b>OBJECTIVES</b>	<b>PAGE REFERENCES</b>
<ul style="list-style-type: none"> <li>• Circles</li> </ul>	SE: 453–458, 462–467, 468–473, 478–482, 483–487, 491–493, 474–477, 488–490  TWE: 453–458, 462–467, 468–473, 478–482, 483–487, 491–493, 474–477, 488–490
2.04 Develop and apply properties of solids to solve problems.	SE: 496–501, 504–509, 510–515, 516–521, 522–527, 528–533, 534–539, 540–542, 543  TWE: 496–501, 504–509, 510–515, 516–521, 522–527, 528–533, 534–539, 540–542, 543
<b>COMPETENCY GOAL 3: The learner will transform geometric figures in the coordinate plane algebraically.</b>	
3.01 Describe the transformation (translation, reflection, rotation, dilation) of polygons in the coordinate plane in simple algebraic terms.	SE: 198–202, 687–690, 692–696, 697–702, 703–707, 708–709, 710–712, 712  TWE: 198–202, 687–690, 692–696, 697–702, 703–707, 708–709, 710–712, 712
3.02 Use matrix operations (addition, subtraction, multiplication, scalar multiplication) to describe the transformation of polygons in the coordinate plane.	SE: 198–202, 687–690, 692–696, 697–702, 703–707, 708–709, 710–712, 712  TWE: 198–202, 687–690, 692–696, 697–702, 703–707, 708–709, 710–712, 712

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